

U.S. Application No. 10/578,851 -- 2

1 – 10. (canceled)

11. (currently amended) An arrangement in the ventilation of a kitchen appliance, which arrangement is arranged to be connected to a ventilation system, said arrangement comprising:

at least one hood having an exhaust-air connection, which hood is intended to be installed above the kitchen appliance, and the hood not including a sensor, a damper, a water bath, a heat exchanger, and a separator for grease,

~~an exhaust-air connection in each hood, for connecting the hood to an exhaust air duct belonging to the ventilation system,~~

an exhaust-air duct for each hood, the exhaust-air duct having a first end connected to the hood and a second end,

~~a cell that is not part of the hood, and is disposed downstream of and arranged after the hood, to which the separator is fitted, and which is connected to the exhaust-air duct, and the cell includes a connection for leading the exhaust-air collected from the hood to the cell~~  
having a first connection connected to the second end of the exhaust-air duct and an exhaust connection connected to the exhaust-air duct of the ventilation system that does not lead exhaust-air back to the kitchen appliance,

a separator in the cell between the first connection and the exhaust connection, for separating grease from the exhaust air, arranged vertically inside the cell,

a grease cup arranged beneath the separator and inside the cell for collecting grease separated by the separator and leading grease outside of the cell,

an intake-air connection in the cell downstream and separate from the hood for introducing additional non-exhaust air into the cell and thus for mixing intake air with collected exhaust air to alter the temperature and/or flow of the exhaust air and for cooling the separator,

the cell being wider than the exhaust-air duct and forming a mixing chamber for mixing the exhaust air and the additional non-exhaust air and for reducing the air velocity in the cell upstream of the separator, and

U.S. Application No. 10/578,851 -- 3

means for regulating the velocity, quantity, and/or temperature of the air mixed in the cell in such way that the velocity, quantity, and temperature of the air mixed in the cell are as desired in contact with the separator, said means including a temperature sensor arranged in the cell in connection with the separator as well as a heat exchanger, a motor, and a damper arranged in connection with the intake-air connection for regulating the velocity, quantity, and/or temperature of the intake air, and the heat exchanger, the motor, and the damper are connected to the temperature sensor for controlling them.

12. (previously presented) An arrangement according to claim 11, characterized in that the cell is an elongated structure and the connection is fitted to the opposite end of the cell to the separator.

13. (previously presented) An arrangement according to claim 11, characterized in that the ventilation system, the cell is fitted essentially horizontally relative to its longitudinal axis.

14. (previously presented) An arrangement according to claim 11, characterized in that, in order to feed intake air into the exhaust air, the cell includes a distribution duct and nozzle elements connected to it.

15. (previously presented) An arrangement according to claim 11, characterized in that the intake-air connection is connected to the intake-air duct belonging to the ventilation system.

16. (previously presented) An arrangement according to claim 11, characterized in that the cell includes baffle elements for guiding the flow of the exhaust air in the cell.

U.S. Application No. 10/578,851 -- 4

17. (previously presented) An arrangement according to claim 11, characterized in that the cell includes washing elements for distributing washing liquid to the cell and/or the separator.

18. (previously presented) An arrangement according to claim 11, characterized in that the width of the cell is 1.1 – 2.0 times the width of the exhaust-air duct.

19. (previously presented) An arrangement according to claim 11, characterized in that the length of the cell is 2 – 6 times the width of the cell.

20. (previously presented) An arrangement according to claim 11, characterized in that the cubic capacity of the cell is at least 10% of the minute volume of the flow of exhaust air.